User's Manual

Contents

1. INTRODUCTION 1

2. OPERATION 2

2.1 DESCRIPTION OF THE DIFFERENT MODES 2
2.2 OPERATION WITH THE FOUR BUTTONS AT THE MAIN UNIT 2
2.3 OPERATION WITH THE REMOTE CONTROL UNIT 3

3. TROUBLESHOOTING 4

4. TECHNICAL DATA 4

1. Introduction

The LED Color Controller Colori Eco (4 switches) and Colori Eco RC (remote control) feature the possibility in combination with the RGB-LED printed circuit boards to make very interesting color change scenes with brilliant brightness and amazing effects.

The most popular applications are effect lighting for furniture, fair and building. The LED Color Controller Colori Eco (4 switches) and Colori Eco RC (remote control) are very easy to use and offer flexible use with six different color programs which can be operated with four different velocities. Furthermore the controller can store a favourite color from the hole spectrum which consists of more than 16 million different colors. This is done by simply activating one switch and the personal favourite color is stored for the future use.

The optional Color Controller Colori Eco RC (remote control) makes the operation more comfortable with an easy to use remote control unit. The battery (included) lasts with normal operation for at least one year.

2. Operation

2.1 Description of the different Modes

1. Mode „Color changing“. The complete color spectrum will be displayed (16,7Million colors)
2. Mode „Two color change“. Smooth changing between two different, adjusted colors
3. Mode „Up- and Down changing“. The intensity of one color goes smooth up and down 0%-100%-0%
4. Mode „Random“. A sequence of different random colors of the spectrum will be displayed
5. Mode „Constant“. A fixed, constant color will be displayed

2.2 Operation with the four buttons at the main unit

ON/OFF	MODE	SPEED	COLOR
The last program configuration will go on	1. Color changing	10 sec. 90 sec. 10 min. 50 min.	Taking over of the currently displayed color as an option for all other programs
The last program configuration will go on	2. Two color change	10 sec. 90 sec. 10 min. 50 min.	White-blue Yellow-green Magenta-blue Red-violett
The last program configuration will go on	3. Up- and Down changing	10 sec. 90 sec. 10 min. 50 min.	Magenta, cyan, white, red, green, blue, yellow
The last program configuration will go on	4. Random	10 sec. 90 sec. 10 min. 50 min.	No function
The last program configuration will go on	5. Constant	No function	Magenta, cyan, white, red, green, blue, yellow

Examples of different configurations

Example 1: Adjusting an individual, constant color

1. After the turn on of the controller with the ON button the last mode will be aktivated
2. Switch off the controller with the ON/OFF button
3. Press the MODE button 1x (the mode color changing is activated)
4. Press the SPEED button 1x (the velocity of the changing is 90 seconds)
5. To store your favourite color wait until your favourite color appears and then immediately press the COLOR button 1x, your selected color is stored
6. To display your new favourite color, press the MODE button 4x to get in the mode constant color
7. Your favourite color will be displayed
8. You can store up to 4 different individual colors. By pressing the COLOR button more than once you can choose between 7 different colors

Example 2: Color green up- and down changing with a velocity of 10 minutes

1. After the turn on of the controller with the MODE button mode 1 is activated with a velocity of 10 seconds
2. Press the MODE button 2x (Mode 3 is activated)
3. Press the SPEED button 2x (the velocity is 10 minutes)
4. Repeat pressing the Color button until the desired color will be displayed

Example 3: You are not really sure about the current program configuration, reset to factory default program configuration

The Color Controller Colori Eco series are equipped with a power fault protection, that means a stored program configuration will be reaktivated when you turn off the power with the ON/OFF button and on again with the ON/OFF button. The same behavior can be obtained when the mains connection is re-inserted.

If you do not really know how you can change or adjust your favourite program configuration or you get an unexpected response you can reset the controller to the factory default program configuration with two simple button clicks:

1. Turn of the power by pressing the ON/OFF button
2. Press the MODE button 1x, you enter the automatic color changing mode with a velocity of 10 seconds

2.3 Operation with the remote control unit

The operation of the color controller with the remote control unit is very simple with four buttons which have the same function as the buttons at the main unit:

3. Troubleshooting

If your color controller is not working correctly, we advise you to read the operating instructions carefully before contacting your dealer. The following troubleshooting hints could be helpful.

Error	Possible reason
No function	• Is the power supply connected? • Does the wall socket have mains power? • Are all other connections ok? • Replace the power supply
One color is displayed permanently, the other colors not	• Change the program configuration with the MODE button • Hardware Error?
One color is displayed permanently, the other colors make the color changing	• Change the program configuration with the MODE button • Hardware Error?.
No reaction on the remote control unit	• Replace the battery in the remote control unit • Remote control unit or color controller error

4. Technical data

Nominal Supply voltage	10-30VDC, unregulated or regulated
Current consumption (without LED)	appr. 30mA
LED Outputs	3
Maximum Power consumption (over all)	max. 50VA
Controlling	PWM
Colors (over all)	appr. 16,7Mio
LED-connection	RJ11 (up to 1,2A per color line!)
Supply connector	AMP 2 pin
Remote frequency (only Colori ECO RC)	868MHz (ISM), free field max. 100m
Temperature Range	0...+75°C
Housing protection class	IP40 / DIN VDE 0470 / EN 60529
Dimensions (LxBxH) mm	105mm x 55mm x 30mm
Weight	appr. 120g

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